PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: Lisa A Haile Gray, Gary, Ware & Freidenrich LLP 4365 Executive Drive, Suite 1100 San Diego, California 92121-2133	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1) Date of mailing (day/month/year) 29 NOV 2004			
Applicant's or agent's file reference	(ca)/monanyca/			
	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US04/19453	International filing date (day/month/year) 18 June 2004 (18.06.2004)			
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA				
The applicant is hereby notified that the international sea Authority have been established and are transmitted here	rch report and the written opinion of the International Searching with.			
Filing of amendments and statement under Article 19. The applicant is entitled, if he so wishes, to amend the cl	aims of the international application (see Rule 46):			
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPe 1211 Geneva 20, Switzerland, Facsimile No.	O, 34 chemin des Colombettes D: +41 22 740 14 35			
For more detailed instructions, see the notes on the				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) additional a	tional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the ap	oplicant will be notified as soon as a decision is made.			
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCI/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet situation.	ne applicable time limits, Office by Office, see the PCT Applicant's e.			
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer DEBORAH A. THOMAS Fiona T. Powers PARALEGAL SPECIALIST SROUP 1300 Act 1 Telephone No. 703-308-1235			

Form PCT/ISA/220 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see	Form PCT/ISA/220	
	ACTION as well as, wh	ere applicable, item 5 below.	
International application No. PCT/US04/19453	International filing date (day/month/year) 18 June 2004 (18.06.2004)	(Earliest) Priority Date (day/month/year) 20 June 2003 (20.06.2003)	
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA			
according to Article 18. A copy is being This international search report consists	n prepared by this International Searching Age transmitted to the International Bureau. of a total of sheets. d by a copy of each prior art document cited		
	e international search was carried out on the ba unless otherwise indicated under this item.	asis of the international application in the	
	I search was carried out on the basis of a trans ority (Rule 23.1(b)).	lation of the international application	
b. With regard to any nucleot	ide and/or amino acid sequence disclosed in	the international application, see Box No. I.	
2. Certain claims were found	l unsearchable (See Box No. II)		
3. Unity of invention is lacki	ng (See Box No. III)		
4. With regard to the title,			
the text is approved as subr			
the text has been established	d by this Authority to read as follows:		
•		•	
5. With regard to the abstract,			
the text is approved as sub	nitted by the applicant.		
	d, according to Rule 38.2(b), by this Authority m the date of mailing of this international searce		
6. With regard to the drawings,			
	published with the abstract is Figure No.		
as suggested by th	e applicant.		
as selected by this	Authority, because the applicant failed to sugg	gest a figure.	
as selected by this	Authority, because this figure better character	rizes the invention.	
b. none of the figures is to be	published with the abstract.		
<u></u>			

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19453

IPC(7) : A61K 31/407 US CL : 548/453; 514/421 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
According to International Patent Classification (IPC) or to both national classification and IPC			
D. ILLED GEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 548/453; 514/421			
Documentation searched other than minimum documentation to the extent that such documents are included in the field	is searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where appropriate, of the relevant passages Releva	nt to claim No.		
A WO 02/47610 A2 (FENICAL et al) 20 June 2002 (20.06.2002)	1-8		
Further documents are listed in the continuation of Box C. See patent family annex.			
• Special categories of cited documents: "T" later document published after the international fit date and not in conflict with the application but cit principle or theory underlying the invention	ing date or priority ted to understand the		
of particular relevance "X" document of particular relevance; the claimed involved in the considered novel or cannot be considered to involve the document is taken alone "E" earlier application or patent published on or after the international filing date considered novel or cannot be considered to involvent the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as "Y" document of particular relevance; the claimed involve specified) considered to involve an inventive step when the documents	document is		
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art	, Jaga Comoniation		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			
Date of the actual completion of the international search 13 October 2004 (13.10.2004) Date of mailing of the international search report 29 NOV	2004		
Name and mailing address of the ISA/US Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Figure 7. Powers DFRORAH	A TUOLAG		
I P.U. BOX 1450 I PARALECAL	A. THOMAS SPECIALIST P1990 DUT		
Facsimile No. (703) 305-3230 Form PCT/ISA/210 (second sheet) (January 2004)	· worder		

PATENT COOPERATION TREAT.

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NTERNATIONAL SEARCHING AUTHORITY

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To:					
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Lisa A Haile Gray, Gary, Ware & Freidenrich LLP 4365 Executive Drive, Suite 1100 San Diego, California 92121-2133	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
	Date of mailing			
Applicant's or agent's file reference	(day/month/year) 29 NOV 2004 FOR FURTHER ACTION See paragraph 2 below			
International application No. Interna	ational filing date (day/month/year) Priority date (day/month/year)			
PCT/US04/19453 18 Jun	ue 2004 (18.06.2004) 20 June 2003 (20.06.2003)			
International Patent Classification (IPC) or both				
IPC(7): C07D491/044; A61K 31/407 and US CI	.: 548/453; 514/421			
Applicant				
THE REGENTS OF THE UNIVERSITY OF C.	ALIFORNIA			
1. This opinion contains indications relating to	the following items:			
Box No. I Basis of the opinion	1			
Box No. II Priority				
Box No. III Non-establishment	of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of in	Lack of unity of invention			
	asoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial blicability; citations and explanations supporting such statement			
Box No. VI Certain documents	cited			
Box No. VII Certain defects in the	ne international application			
Box No. VIII Certain observation	s on the international application			
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ US	Authorized officer DEBORAH A. THOMAS			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Roy 1450	Fiona T. Powers PARALEGAL SPECIALIST			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-308-1235			
Facsimile No. (703) 305-3230				

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/19453

Box No. 1 Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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,
Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/19453

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	1-14	YES
		NONE	NO
			Ì
Inventive step (IS)	Claims		YES
	Claims	NONE	_NO
Industrial applicability (IA)	Claims	1-14	YES
industrial applicationity (124)		NONE	NO NO
			
2. Citations and explanations:			
Claims 1 to 14 meet the criteria set out in PCT Artic	ele 33(2)-(3), is compositions	because the prior art does not teach or fairly suggest the cl thereof or method of treating a mammalian cell proliferati	aimed ve
Claims 1 to 14 meet the criteria set out in PCT Artic can be made or used in industry.	le 33(4), and	thus have industrial applicability because the subject matter	er claimed
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NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.